

# Repeat this exercise

1. **Request the Training kit** containing the Jupyter Notebook, environment setup, install instructions and training data by sending an e-mail to: [eotraining@serco.com](mailto:eotraining@serco.com)  
(Please specify that you are requesting the Training kit and include the name of the webinar series)
2. **Install SNAP** - <https://step.esa.int/main/download/snap-download/>  
The Sentinel Toolboxes installation is sufficient for this exercise.
2. **Download data listed in Table 1** (you can also work with fewer images)
3. **Process the Sentinel-1 data** in SNAP as shown in PART 3 of this webinar series.  
Output = coregistered preprocessed Sentinel-1 stack
4. **Process the Sentinel-2 data** and colocate with the Sentinel-1 stack as shown in PART 4 of this webinar series.  
Output = colocated preprocessed Sentinel-1 & Sentinel-2 stack
5. **Follow steps in installation\_instructions.txt** (provided in the Training kit) to set-up your Python environment and open Jupyter Lab.
6. In Jupyter Lab navigate to the Training kit and **open the PY2\_CropMapping.ipynb**
7. **Adapt the paths** in section 2. User input data of the Jupyter notebook to reflect paths to your preprocessed data and the Training and Validation datasets.
8. **Run the code cell by cell** (CTRL+Enter) and test different parameters.
9. **Have fun!**

# Table 1 – Input Data

Sentinel 1	Sentinel 2
S1A_IW_GRDH_1SDV_20180905T093144_20180905T093209_023561_0290F8_2644	S2A_MSIL1C_20181002T141041_N0206_R110_T20HLG_20181002T174546
S1A_IW_GRDH_1SDV_20180917T093144_20180917T093209_023736_029690_333A	S2B_MSIL1C_20181007T141039_N0206_R110_T20HLG_20181007T192312
S1A_IW_GRDH_1SDV_20180929T093145_20180929T093210_023911_029C3F_F315	S2A_MSIL1C_20181121T141041_N0207_R110_T20HLG_20181121T172543
S1A_IW_GRDH_1SDV_20181011T093145_20181011T093210_024086_02A1FC_9A7A	S2A_MSIL1C_20181221T141041_N0207_R110_T20HLG_20181221T172859
S1A_IW_GRDH_1SDV_20181104T093145_20181104T093210_024436_02AD93_F65D	S2B_MSIL1C_20181226T141039_N0207_R110_T20HLG_20181226T172720
S1A_IW_GRDH_1SDV_20181116T093145_20181116T093210_024611_02B3FA_180E	S2B_MSIL1C_20190204T141049_N0207_R110_T20HLG_20190204T190715
S1A_IW_GRDH_1SDV_20181128T093144_20181128T093209_024786_02BA6B_73E2	S2B_MSIL1C_20190214T141049_N0207_R110_T20HLG_20190214T191234
S1A_IW_GRDH_1SDV_20181210T093144_20181210T093209_024961_02C049_D5C3	S2B_MSIL1C_20190405T141049_N0207_R110_T20HLG_20190405T172750
S1A_IW_GRDH_1SDV_20181222T093143_20181222T093208_025136_02C69B_5155	S2A_MSIL1C_20190510T141051_N0207_R110_T20HLG_20190510T155015
S1A_IW_GRDH_1SDV_20190103T093143_20190103T093208_025311_02CCE8_223B	S2B_MSIL1C_20190515T141059_N0207_R110_T20HLG_20190515T172502
S1A_IW_GRDH_1SDV_20190115T093142_20190115T093207_025486_02D339_3A65	
S1A_IW_GRDH_1SDV_20190127T093142_20190127T093207_025661_02D9A4_CEB9	
S1A_IW_GRDH_1SDV_20190208T093141_20190208T093206_025836_02DFEA_F194	
S1A_IW_GRDH_1SDV_20190220T093141_20190220T093206_026011_02E625_2210	
S1A_IW_GRDH_1SDV_20190304T093142_20190304T093207_026186_02EC6C_79D1	
S1A_IW_GRDH_1SDV_20190316T093141_20190316T093206_026361_02F2D9_D12D	
S1A_IW_GRDH_1SDV_20190328T093142_20190328T093207_026536_02F943_8894	
S1A_IW_GRDH_1SDV_20190409T093142_20190409T093207_026711_02FFB6_281C	
S1A_IW_GRDH_1SDV_20190421T093143_20190421T093208_026886_030602_8B8D	
S1A_IW_GRDH_1SDV_20190503T093143_20190503T093208_027061_030C68_E2A9	
S1A_IW_GRDH_1SDV_20190515T093143_20190515T093208_027236_031222_4B1C	
S1A_IW_GRDH_1SDV_20190527T093144_20190527T093209_027411_031795_B316	